What is claimed is,

- 1. A radiation image conversion panel comprising a phosphor sheet having a support and a stimulable phosphor layer containing a stimulable phosphor provided on the support and a protective film covering the stimulable phosphor layer, wherein a transmittance of the protective film for stimulating light to stimulate the stimulable phosphor is not larger than 97% and a haze ratio of the protective film is within the range of 5% to 60%.
- The radiation image conversion panel of Claim 1, wherein the transmittance of the protective film for stimulating light is within a range of from 97 to 50 percent.
- 3. The radiation image conversion panel of Claim 2, wherein the transmittance of the protective film for stimulating light is within a range of from 95 to 80 percent.
- 4. The radiation image conversion panel of Claim 1, wherein the haze ratio is within the range of 5% to 50%.

- 5. The radiation image conversion panel of Claim 4, wherein the haze ratio is within the range of 10% to 30%.
- 6. The radiation image conversion panel of Claim 1, wherein a water vapor transmission rate of the protective film is not more than 50 g/m 2 per day.
- 7. The radiation image conversion panel of Claim 6, wherein the water vapor transmission rate of the protective film is not more than 10 g/m^2 per day.
- 8. The radiation image conversion panel of Claim 1, wherein the protective film comprises a stimulating light absorbing layer.
- 9. The radiation image conversion panel of Claim 8, wherein the protective film further comprises a first resin layer and a second resin layer and the stimulating light absorbing layer is provided between the first resin layer and the second resin layer.
- 10. The radiation image conversion panel of Claim 1, wherein the protective film comprises a thermo-welding resin on a surface, which is in contact with the phosphor sheet.
- 11. The radiation image conversion panel of Claim 1, wherein the protective film is provided independently from the stimulable phosphor layer so as to cover the

whole surface of the phosphor sheet and the protective film has an outermost layer, which is in contact with the phosphor sheet, and a surface roughness of the outermost layer of the protective film is larger than a surface roughness of the stimulable phosphor layer, wherein the surface roughness is arithmetical mean roughness (Ra) defined by JIS-B0601.

- 12. The radiation image conversion panel of Claim 11, wherein the surface roughness of the outermost layer of the protective film is not more than 1.0 μm .
- 13. The radiation image conversion panel of Claim 11, wherein a water vapor transmission rate of the protective film is not more than 50 g/m^2 per day.
- 14. The radiation image conversion panel of Claim 13, wherein the water vapor transmission rate of the protective film is not more than 10 g/m 2 per day.
- 15. The radiation image conversion panel of Claim 11, wherein the outermost layer of the protective film comprises a thermo-welding resins on surface, which is in contact with the phosphor sheet.
- 16. The radiation image conversion panel of Claim 1, wherein the protective film covers a whole surface of the phosphor sheet.